IN THE CLAIMS:

Please enter any changes in the claims indicated in the complete copy of the pending claims, as sought to be amended, presented below:

1-42. (Canceled).

43. (Currently Amended): A compound of the following formula:

$$R^{y}$$
 R^{y}
 R^{1}
 R^{1}
 R^{4}
 R^{5}

or a pharmaceutically acceptable salt thereof, wherein:

- (1) C^{*} is a substituted carbon;
- (2) R² (a) is hydrogen, (C1-C6) alkyl, (C1-C6) alkoxy, cyano, (C2-C7) alkanoyl, aminocarbonyl, (C1-C6) alkylaminocarbonyl, or dialkylaminocarbonyl wherein each alkyl is independently C1 to C6, (b) comprises is (where R¹ is not aminoethylene, -O-R⁸ or -S-R^{8*}) hydroxy, fluoro, chloro, bromo or (C2-C7) alkanoyloxy, (c) forms a double bond with an adjacent carbon or nitrogen from one of either R¹, R^{xb} or R^{yb}, or (d) is R^{2a} linked by R^{2b} to C*;
- (2i) R^{x} is R^{xa} linked by R^{xb} to C^{*} ;
- (2ii) Ry is Rya linked by Ryb to C*;
- (2ⁱⁱⁱ) R^{xa} and R^{ya}, are independently Ar, which is phenyl or naphthyl, heteroaryl, or a 5 to 7-membered non-aromatic ring having from 0 to 2 heteroatoms selected from the group consisting of oxygen [[,]] and sulfur and nitrogen, and R^{2a}, when present, is Ar, and wherein:

- (a) heteroaryl eomprises is thienyl, furanyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, or benzoxazolyl, or methylenedioxyphenyl,
- (b) each of R^{xa} and R^{ya} can be independently substituted with one of R^q, R^rO- or R^sS-, wherein each of R^q, R^r and R^s are independently Ar, heteroaryl, adamantyl, or a 5 to 7-membered non-aromatic ring having from 0 to 2 heteroatoms selected from the group consisting of oxygen [[,]] and sulfur and nitrogen, and
- (c) R^{xa}, R^{ya}, R^{2a}, R^q, R^r and R^s can be substituted or additionally substituted with one or more substituents selected from the group consisting of fluoro, chloro, bromo, nitro, hydroxy, cyano, trifluoromethyl, amidosulfonyl which can have up to two independent (C1-C6) N-alkyl substitutions, (C1-C12) alkyl, (C2-C12) alkenyl, amino, (C1-C6) alkylamino, dialkylamino wherein each alkyl of dialkylamino is independently C1 to C6, (C1-C6) alkoxy, (C2-C7) alkanoyl, (C2-C7) alkanoyloxy, trifluoromethoxy, hydroxycarbonyl, (C2-C7) alkyloxycarbonyl, aminocarbonyl that can be substituted for hydrogen with up to two independent (C1-C6) alkyl, (C1-C6) alkylsulfonyl, or amidino wherein the amidino can be independently substituted with up to three (C1-C6) alkyl groups, wherein:
 - (i.) the substitutions of R^{xa} and R^{ya} can be combined to form a second bridge between R^{xa} and R^{ya} eomprising in which the second bridge is (1) methylene or ethylene, or (2) -CH=CH-, or (3) sulfur, or (4) oxygen, or wherein R^{xa} and R^{ya} can be directly linked by a single bond,
- (d) wherein at least one of R^{xa}, R^{ya}, R^q, R^r or R^s is heteroaryl, or [[a]] the second bridge between R^{xa} and R^{ya} comprises is sulfur or oxygen as set forth below in (c)(i), or Ar substituted with a methylenedioxy;
- (2iv) Rxb and R2b are independently a single bond or (C1-C2) alkylene;

(2^v) R^{yb} is a single bond, oxy, (C1-C2) alkylene, ethenylene or -CH= (where the double bond is with C^*), thio, methyleneoxy or methylenethio, or either -N(R^6) or -CH₂-N(R^{6*})-, wherein R^6 and R^{6*} are hydrogen or (C1-C6) alkyl;

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- (3) R^1 comprises is: a straight-chained (C2-C3) aliphatic group; =N-O-(ethylene), wherein the unmatched double bond is linked to C^* ; -O-R⁸ or -S-R^{8*} wherein R⁸ or R^{8*} is a ethylene or ethenylene and O or S is bonded to C^* ; or aminoethylene where the amino is bonded to C^* :
 - wherein R¹ can be substituted with up to one hydroxy, up to one (C1-C6) alkoxy or up to one (C2-C7) alkanoyloxy, with up to two independent (C1-C6) alkyl, with up to one oxo, up to one (C1-C6) alkylidene, with the proviso that the hydroxy, alkoxy, alkanoyloxy or oxo substituents are not bonded to a carbon that is bonded to a nitrogen or oxygen;
 - wherein if R¹ contributes a heteroatom linked to C^{*}, then R^{yb} does not contribute a heteroatom linked to C^{*}; and
 - wherein the alkyl or alkylidene substituents of R¹ can be linked to form a 3 to 7-membered non-aromatic ring;
- (4) R³ (a) is hydrogen, (C1-C6) alkyl, or phenyl or phenylalkyl wherein the alkyl is C1 to C6 and the phenyl or phenyl of phenylalkyl can be substituted with the same substituents defined above for Ar of R^{xa}, (b) is -R¹²C(R^{xx})(R^{yy})(R¹¹), wherein R¹² is bonded to N, R^{xx} is independently the same as R^x except that its substituents corresponding to R^q, R^r and R^s, namely R^{q'}, R^{r'} and R^{q'}, respectively, further can be substituted or unsubstituted thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, benzothiazolyl or benzoxazolyl, R^{yy} is independently the same as R^y except that its substituents corresponding to R^q, R^r and R^{s'} are R^{q'}, R^{r'} and R^{q'}, respectively, R¹¹ is independently the same as R² except that its substituents corresponding to R^q, R^r and R^{g'}, respectively, and R¹² is independently the same as R¹:

- (5) R⁴ and R^{4*} are independently hydrogen or (C1-C6) alkyl, or one of R⁴ and R^{4*} can be (C1-C6) hydroxyalkyl; and
- (6) R⁵ is (CO)NR¹³R¹⁴, (CO)OR¹⁵, (CO)SR¹⁶, (SO₂)NR¹⁷R¹⁸, (PO)(OR¹⁹)(OR²⁰), (CR²²)(OR²³)(OR²⁴), CN or tetrazol-5-yl, wherein (a) R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷, R¹⁸ R¹⁹ and R²⁰ are independently hydrogen, (C1-C8) alkyl which can include a (C3-C8) cycloalkyl, wherein the carbon linked to the oxygen of R¹⁵ that is linked to oxygen or the carbon sulfur of R¹⁶ that is linked to sulfur has no more than secondary branching, (C2-C6) hydroxyalkyl, aminoalkyl where the alkyl is C2 to C6 and the amino can be substituted with up to two independent (C1-C6) alkyls, Ar-alkyl wherein the alkyl is C1-C6, or Ar, and (b) R²² is hydrogen or OR²⁵ and R²³, R²⁴ and R²⁵ are independently (C1-C6) alkyl, phenyl, benzyl or acetyl or, where R²² is hydrogen, the alkyls of R²³ and R²⁴ can be combined to include 1,3-dioxolane or 1,3-dioxane:

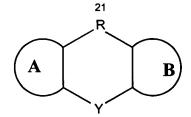
wherein the phenyl or naphthyl groups of R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷, R¹⁸, R¹⁹, R²⁰, R²², R²³ or R²⁴ can be substituted with substituents selected from the group consisting of fluoro, chloro, bromo, nitro, cyano, hydroxy, trifluoromethyl, amidosulfonyl which can have up to two independent (C1-C6) N-alkyl substitutions, (C1-C6) alkyl, (C2-C6) alkenyl, (C1-C6) alkylamine, dialkylamine wherein each alkyl is independently C1 to C6, amino, (C1-C6) alkoxy, (C2-C7) alkanoyl, (C2-C7) alkanoyloxy, trifluoromethoxy, hydroxycarbonyl, (C2-C7) alkyloxycarbonyl, aminocarbonyl that can be N-substituted with up to two independent (C1-C6) alkyl, (C1-C6) alkylsulfonyl, or amidino that can be substituted with up to three (C1-C6) alkyl;

wherein R^{13} and R^{14} together with the attached nitrogen can form a 5 to 7-membered ring.

- 44. (Previously Presented): The compound of claim 43, wherein at least one of R^{xa}, R^{ya}, R^q, R^r and R^s is thienyl or furanyl.
- 45. (Previously Presented): The compound of claim 43, wherein at least one of R^{Xa} and R^{ya} is thienyl or furanyl.
- 46. (Previously Presented): The compound of claim 43, wherein
- (A) at least one of R^{xa}, R^{ya} and R^{2a} is substituted with fluoro, chloro, bromo, hydroxy, trifluoromethyl, trifluoromethoxy, nitro, cyano or (C3-C8) alkyl, or
- (B) at least one of RXa and Rya is substituted with Rq, RrO- or RSS-, or
- (C) R³ is hydrogen, (C1-C6) alkyl, or phenyl or phenylalkyl wherein the alkyl is C1 to C6 and either such phenyl can be substituted with
 - (1) one of R^q, R^rO- or R^sS-, wherein each of R^q, R^r and R^s are independently Ar, heteroaryl, adamantyl, or a 5 to 7-membered non-aromatic ring having from 0 to 2 heteroatoms selected from the group consisting of oxygen, sulfur and nitrogen, and
 - (2) wherein either phenyl of R³, R^q, R^r and R^s can be substituted or additionally substituted with one or more substituents selected from the group consisting of fluoro, chloro, bromo, nitro, hydroxy, cyano, trifluoromethyl, amidosulfonyl which can have up to two independent (C1 C6) N alkyl substitutions, (C1-C12) alkyl, (C2-C12) alkenyl, amino, (C1-C6) alkylamino, dialkylamino wherein each alkyl of dialkylamino is independently C1 to C6, (C1-C6) alkoxy, (C2-C7) alkanoyl, (C2-C7) alkanoyl, trifluoromethoxy, hydroxycarbonyl, (C2-C7) alkyloxycarbonyl, aminocarbonyl that can be substituted for hydrogen with up to two independent (C1-C6) alkyl, (C1-C6) alkylsulfonyl, or amidino wherein the amidino can be independently substituted with up to three (C1-C6) alkyl groups, or

- (D) the ring structures of R^{xa}, R^{ya} and R^{2a}, including substituents thereto, otherwise include at least two aromatic ring structures that together include from 15 to 20 ring atoms.
- 47. (Previously Presented): The compound of claim 46, wherein at least one of R^{xa}, R^{ya}, R^q, R^r and R^s is substituted with fluoro, trifluoromethyl, trifluoromethoxy, nitro, cyano, or (C3-C8) alkyl.
- 48. (Previously Presented): The compound of claim 43, wherein at least one of R^{xa} and R^{ya} is substituted with R^q, R^rO-, or R^sS-.
- 49. (Previously Presented): The compound of claim 43, wherein an Ar of at least one of R^{xa} , R^{ya} and R^{2a} is phenyl.
- 50. (Previously Presented): The compound of claim 43, wherein R^{yb} is oxy, methyleneoxy, thio, or methylenethio.
- 51. (Previously Presented): The compound of claim 50, wherein Ryb is oxy or thio.
- 52. (Previously Presented): The compound of claim 43, wherein R^5 is (CO)NR¹³R¹⁴, (CO)OR¹⁵ or (CO)SR¹⁶.
- 53. (Previously Presented): The compound of claim 52, wherein R⁵ is (CO)OR¹⁵ and R¹⁵ is (C2-C6) alkyl, (C2-C4) hydroxyalkyl, phenyl, phenylalkyl wherein the alkyl is C1-C3, or aminoalkyl where the alkyl is C2-C6 and the amino can be substituted with up to two independent (C1-C3) alkyls, wherein the phenyl or the phenyl of phenylalkyl can be substituted.

- 54. (Previously Presented): The compound of claim 52, wherein R⁵ is (CO)OR¹⁵ and R¹⁵ is hydrogen.
- 55. (Previously Presented): The compound of claim 43, wherein R⁴ is hydrogen, methyl or hydroxymethyl and R^{4*} is hydrogen.
- 56. (Previously Presented): The compound of claim 43, wherein R¹ is -O-R⁸ or -S-R^{8*}.
- 57. (Currently Amended): The compound of claim 56, wherein R^{xa}-R^{xb}-, R^{ya}-R^{yb}- and C^{*} form:



wherein A and B are Ar ring structures consistent with the definitions of R^{xa} and R^{ya}, respectively, and Y is C^{*} wherein R²¹ either (i.) completes a single bond linking two Ar rings of R^{xa} and R^{ya}, or (ii.) is methylene, ethylene (C1-C2) alkylene or -CH=CH-, and wherein R^{xa} and R^{ya} can be substituted.

- 58. (Currently Amended): The compound of claim 57, wherein R²¹ is ethylene CH₂CH₂ or CH=CH.
- 59. (Previously Presented): The compound of claim 43, wherein R^{xa} and R^{ya} together can be substituted with up to six substituents, R^{2a}, R^q, R^r and R^s can each be substituted with up to

3 substituents, and wherein the presence of each of Rq, RrO- or RsS- is considered a substitution to the respective ring structure of Rxa and Rya.

- 60. (Previously Presented): The compound of claim 43, wherein a phenyl of R³ is substituted with up to three substituents.
- 61. (Previously Presented): The compound of claim 43, wherein the Ar of R^{13} , R^{14} , R^{15} , R^{16} , R^{17} , R^{18} , R^{19} or R^{20} is substituted with up to three substituents.
- 62. (Previously Amended): The compound of claim 43, wherein R³ is hydrogen, (C1-C6) alkyl, or phenyl or phenylalkyl wherein the alkyl is C1 to C6 and the phenyl or phenyl of phenylalkyl can be substituted with:
 - one of Rq, RrO- or RsS-, wherein each of Rq, Rr and Rs are independently Ar, heteroaryl (wherein heteroaryl comprises thienyl, furanyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, benzothienyl, benzofuryl, benzothiazolyl, benzoxazolyl or methylenedioxyphenyl), adamantyl, or a 5 to 7-membered non-aromatic ring having from 0 to 2 heteroatoms selected from the group consisting of oxygen, sulfur and nitrogen, and
 - one or more substituents selected from the group consisting of fluoro, chloro, bromo, nitro, hydroxy, cyano, trifluoromethyl, amidosulfonyl which can have up to two independent (C1-C6) N-alkyl substitutions, (C1-C12) alkyl, (C2-C12) alkenyl, amino, (C1-C6) alkylamino, dialkylamino wherein each alkyl of dialkylamino is independently C1 to C6, (C1-C6) alkoxy, (C2-C7) alkanoyl, (C2-C7) alkanoyl, trifluoromethoxy, hydroxycarbonyl, (C2-C7) alkyloxycarbonyl, aminocarbonyl that can be substituted for hydrogen with up to two independent

(C1-C6) alkyl, (C1-C6) alkylsulfonyl, or amidino wherein the amidino can be independently substituted with up to three (C1-C6) alkyl groups.

- 63. (Previously Presented): The compound of claim 43, wherein the compound is an optically pure enantiomer.
- 64. (Previously Presented): A pharmaceutical composition comprising the compound of claim 43 and a pharmaceutically acceptable excipient.
- 65. (Previously Presented): The pharmaceutical composition of claim 64, wherein the compound is present in an effective amount for:
 - (1) treating schizophrenia,
 - (2) treating epilepsy,
 - (3) treating spasticity,
 - (4) treating muscle spasm,
 - (5) treating pain,
 - (6) treating mood disorders,
 - (7) enhancing memory or learning, or
 - (8) treating learning disorders.
- 66. (Currently Amended): The compound of claim 43 wherein:
- (1) R^2 is hydrogen or wherein R^2 forms a double bond with an adjacent carbon from R^1 ,
- (2) R^{xa} and R^{ya} are phenyl, thienyl or furanyl, and can be substituted,
- (3) R^{xb} is a single bond and R^{yb} is a single bond or oxy, and
- (4) R^5 is (CO)NR¹³R¹⁴ or (CO)OR¹⁵, wherein R^{13} , R^{14} , and R^{15} are independently hydrogen; (C1-C8) alkyl which can include a (C3-C8) cycloalkyl, wherein the carbon of R^{15} linked to

[[the]] oxygen of (CO)OR OR Has no more than secondary branching; (C2-C6) hydroxyalkyl or aminoalkyl where the alkyl is C2 to C6 and the amino can be substituted with up to two independent (C1-C6) alkyl or phenylalkyl, wherein the alkyl is C1-C6 and the phenyl can be substituted with substituents selected from the group consisting of fluoro, chloro, bromo, nitro, cyano, hydroxy, trifluoromethyl, amidosulfonyl which can have up to two independent (C1-C6) N-alkyl substitutions, (C1-C6) alkyl, (C2-C6) alkenyl, (C1-C6) alkylamine, dialkylamine wherein each alkyl is independently C1 to C6, amino, (C1-C6) alkoxy, (C2-C7) alkanoyl, (C2-C7) alkanoyloxy, trifluoromethoxy, hydroxycarbonyl, (C2-C7) alkyloxycarbonyl, aminocarbonyl that can be N-substituted with up to two independent (C1-C6) alkyl, (C1-C6) alkylsulfonyl, amidino that can substituted with up to three (C1-C6) alkyl.

- 67. (Previously Presented): The compound of claim 66, wherein R² forms a double bond with an adjacent carbon from R¹.
- definition of (a) treating schizophrenia comprising administering a schizophrenia treating effective amount of a compound of claim 43, (2) [[of]] treating epilepsy comprising administering an epilepsy treating effective amount of [[a]] the compound, (3) treating spasticity comprising administering a spasticity treating effective amount of [[a]] the compound, (4) treating muscle spasm comprising administering a muscle spasm treating effective amount of [[a]] the compound, (5) treating pain comprising administering a pain treating effective amount of [[a]] the compound, (6) treating mood disorders comprising administering a mood disorder treating effective amount of [[a]] the compound, (7) enhancing memory or learning comprising administering a memory or learning effective amount of [[a]] the compound, or (8) treating learning disorders, comprising administering an amount effective for said treating or enhancing of [[a]] the compound of claim 43.

- 69. (Previously Presented): The method of claim 68, wherein the spasticity is associated with epilepsy, stroke, head trauma, multiple sclerosis, spinal cord injury or dystonia.
- 70. (Previously Presented): The method of claim 68 of (1) treating schizophrenia comprising administering a schizophrenia treating effective amount of a compound, (5) treating pain comprising administering a pain treating effective amount of a compound or (6) treating mood disorders comprising administering a mood disorder treating effective amount of a compound.
- 71. (Previously Presented): The method of claim 68 of treating schizophrenia comprising administering a schizophrenia treating effective amount of the compound.
- 72. (Previously Presented): The pharmaceutical composition of claim 65, wherein the compound is present in an effective amount for treating schizophrenia.
- 73. (Previously Presented): The compound of claim 43, wherein R¹ is a straight-chained (C2-C3) aliphatic group.
- 74. (Previously Presented): The compound of claim 73, wherein \mathbb{R}^2 forms a double bond with an adjacent carbon from \mathbb{R}^1 .
- 75. (Previously Presented): The method of claim 70, wherein the mood disorder is depression.
- 76. (Previously Presented): The method of claim 68, wherein the learning disorders are attention deficit disorders.